Expt. No. __Lab Program 2__   Date __6/10/2020__

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```java
import java.util.*;
class Student
{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int totalCredits = 0;
    private int credits[];
    private double marks[];
    Scanner in = new Scanner(System.in);
    void accept()
    {   System.out.println("Enter USN");
        USN = in.nextLine();
        System.out.println("Enter Name");
        name = in.nextLine();
        System.out.println("Enter number of subjects");
        n = in.nextInt();
        credits = new int[n];
        marks = new double[n];
        System.out.println("Details of the subjects:");
        for(int i=0; i<n; i++)
        {

            System.out.println("Enter credits"+(i+1));
            credits[i] = in.nextInt();
            Calculate(credits[i], marks[i], i);

        }
    }
}
```

```java
void calculate( int credit, double mark, int j)
{ total credits = totalCredit+credit;
  if (mark >= 90 && mark <= 100)
      SGPA = SGPA + (10 * credit);
  else if (mark >= 80 && mark <= 89)
      SGPA = SGPA + (9 * credit);
  else if (mark >= 70 && mark <= 79)
      SGPA = SGPA + (8 * credit);
  else if (mark > 40 && mark <= 49)
      SGPA = SGPA + (5 * credit)
  else
      System.out.println("Failed + (j+1));
}

void Display()
{  System.out.println(" Details:");
   System.out.println("USN:" + USN);
   System.out.println("Name: " + Name).
   System.out.println("SGPA"+ (SGPA/total credits));
}

class Main{
public static void main (String args[]) {
   Student s1 = new Student();
   s1.accept();
   s1.Display();
}
}
```